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Substitu	ute for form 1449	A/PTO		Complete if Known			
				Application Number	09/500,755		
INFO	DRMATIO	N DISC	CLOSURE	Filing Date	02/08/2000		
STA	TEMENT	BY AP	PLICANT	First Named Inventor	Mehdi Asnaashari 2851		
	•			Group Art Unit			
	(use as many sh	eels as ne	cessary)	Examiner Name	Namazi, Mehdi		
Sheet	1	of	6	Attorney Docket Number	38979-80US		

		•	U.S. PATENT	DOCUMENTS		
		U.S. Palent Document			Date of Publication of	Pages, Columns, Line
JW	A1	2003/0033471	A1	Lin et al.	02/13/2003	
	A2	6,411,546	B1	Estakhri et al	06/05/2002	
	A3	6,397.314	BI	Estakhri et al.	05/28/2002	
	A4	6,393.513	B2	Estakhri et al.	05/21/2002	
	A5	6,374.337	B1	Estakhri	04/16/2002	
	A6	6,279,114	B1	Toomba et al	08/21/2001	
	A7	5,279.069	Bi	Robinson et al.	08/21/2001	
	A8	8,272,610	B1	Katayama et al.	08/07/2001	<u> </u>
	A9	6,262,918	B1	Estakhri et al.	07/17/2001	
	A10	5,230,234	Barre	Estekhri et al	05/08/2001	
	All	6.226.708	B1	McGoldrick et al.	05/01/2001	
	A12	6,223,308	B1	Estakhri et al	04/24/2001	
	A13	6,202,138	B1	Estakhri et al	03/13/2000	
	A14	6.182,162	B1	Estakhri et al	01/30/2001	
	A15	6,181,118	B1 81	Meehan et al.	01/30/2001	
- 	A16	6,173,362		Yoda	01/09/2001	
	Ait7	6 151,247		Eştakhri et al.	11/21/2000	
	A18	6,145,051		Estakhil et al	11/07/2000	
1	A19	6.141,249		Estakhri et al.	10/31/2000	
	A20	6,134,151		Estakhn et al	10/17/2000	
	A21	6,134,145		Wong	10/17/2000	
	A22	6,128,695	1	Estakhri et al.	10/03/2000	
	A23	6,125,435	Ť	Estakhri et al	09/26/2000	
-1-	A24	6.125,424	†	Komatsu et al	09/26/2000	
	A25	6,122,195		Estakhri et al	09/19/2000	
	A26	8,115,785		Estakhri et al.	09/05/2000	
	A27	6,097,666		Sakui et al	08/01/2000	
	A28	6,081,878		Estakhri et al.	06/27/2000	
	A29	6,081,447		Lofgren et al.	06/27/2000	
	A30	6,072.796	+	Christensen et al.	06/06/2000	
	A31	6,055.188		Takeuchi et al	04/25/2000	-
	A32	8,055,184	+	Acharya et al.	04/25/2000	
	A33	6,047.352	+	Lakhani et al.	04/04/2000	<u> </u>
	A34	6.040,997		Estakrhi	03/21/2000	
	A35	6,035,357	- 	Sakaki	03/07/2000	·
	A36	6,034,897	 	Estakhri et al	03/07/2000	
	A37	6,026,027	1	Terrell, II et al	02/15/2000	
	V38	8,028,020		Matsubara et al.	02/15/2000	
	A39	6,021,408	1	Ledain et al.	02/01/2000	
	A40	6,011,323		Camp	01/04/2000	
	A41	6.011,322		Hiraka	0170472000	
- ,	A42	5,991,849		Yamada et al	11/23/1999	<u> </u>
—√/	A43	5,987,573	 	Hiraka	11/18/1999	

To:USPTO

STA	(use as many	ON DISCLOSU BY APPLICA sheets as necessary) of		Application Number Filing Date First Named Inventor	09/500,755 02/08/2000 Mehdi Asnaashari			
Sheet	(use as many	sheets as necessary)		First Named				
	(use as many	sheets as necessary)	ANT		Mehdi Asnaashari			
	2	 			•			
	2	 		Group Art Unit	2851			
		of	(use as many sheets as necessary)					
JW _	T-X 4 4	UI UI	6	Examiner Name Attorney Docket Number	38979-71US			
	A44	5,987,563		Itoh et al	11/16/1999			
	A45	5,986,933		Takeuchi et al.	11/16/1999			
	A46	5,966,727		Nishino et al	10/12/1999			
	A47	5.959.926		Jones et al	09/28/1999			
	A48	5,956,473	1	Ma et al.	09/21/1999			
	A49	5,953,737		Estakhri et al.	09/14/1999			
	A50	5,937,425		Ban	08/10/1999			
	A51	5,935.971		Harari et al	08/10/1999			
	A52	5,933,846		Endo	08/03/1999			
	A53	5,933,368		Ma et al.	08/03/1999			
	A54	5.930.815		Estaknri et al	07/27/1999			
	A55	5,928,370		Asnaashari	07/27/1999			
	A56 A57	5,920,884		Jennings, III et al.	07/06/1999			
	A58	5,909,586	· ·	Anderson	06/01/1999			
_	A59	5,907,856 5,901,086		Estakhri et al. Wang et al	05/25/1999			
	A60	5,890,192		Loo et al.	03/30/1999			
	A61 \	5,862,099		Gannage et al.	01/19/1999			
	A62	5,860,124		Matthews et al	01/12/1999			
	A63	5,860,083	-	Sukeawa	01/12/1999			
	A64	5,847,552	 	Brown	12/08/1998			
_	A65	5,845,313		Estakhri et al.	12/01/1998			
+	A66	5 835 935		Estakhri et al	11/10/1998			
	A67	5,831,929		Manning	11/03/1998			
	A68	5,822,781		Wells et al	10/13/1998			
	A69	5,822,252		Loo et al	10/13/1998			
	A70	5.822.245	 	Gupta et al.	01/13/1998			
	A71	5,018,781		Estakhri et al.	10/06/1998			
	A72	5,809,560		Schneider	09/15/1998			
	A73	5,809,558		Matthews et al	09/15/1998			
	Λ74	5,809,515		Kaki et al.	09/15/1998			
	A75	5,802,551		Komatsu et al	09/01/1998			
	A76	5,799,168		Ben	08/25/1998			
	A77	5,787,484		Norman	07/28/1998			
	A78	5,787,445		Daberko	07/28/1998			
	A79	5.781,478		Takeeuchi et al	07/14/1998			
	A80	5,773,901	<u> </u>	Kentor	06/30/1998			
	Λ81	5,768,195		Nakamura et al.	06/16/1998			
	A82	5.768.190		Tanaka et al	06/16/1998			
	A83	5,761.117		Uchino et al.	06/02/1998			
	A84	5,758,100		Odisho	05/25/1998			
	A85	5,757,712 5,754,567		Nagel et al	05/26/1998 05/19/1998			
	A85	5,745.418	-	Ma et al	U5/19/1998 U4/28/1998			
	V68	5,734.567	 	Griffiths et al	03/31/1998			

INF	ATEMENT	N DISCLOSU BY APPLICA	Complete if Known Application 09/500,755 Number 02/08/2000 First Named Mehdi Asnaashari Inventor Group Art Unit 2851 Examiner Name Unknown				
Sheet	3	of	6	Attorney Docket Number	38979-71US		
WIL	A90	5,648,929		Miyamoto	07/15/1997		
	A91	5,611,067		Okamoto et al.	03/11/1997		
	A92	5,603,001		Sukegawa et al	02/11/1997		
	A93	5,602,987	•	Harari et al.	02/11/1997		
	A94	5,598,370		Niisima et al.	01/28/1997		
	A95	5,592,415	 	Kato et al.	01/07/1997		
	A96	5,581,723		Hasbun et al	12/03/1996		
	A97	5,579,502		Konishi et al	11/26/1996		
	A98	5,572,466		Sukegawa	11/05/1996		
	A99	5,552,698	1	Tai et al.	09/03/1996		
	A100	5,544,356		Robinson	08/08/1998		
	A101	5,541,551		Brehner et al.	07/30/1996		
	A102	5,530,938		Akasaka et al Kaki et al	06/25/1996		
	A103	5,530,828			06/25/1996		
	A104	5,530,673		Tobita et al.	06/25/1996		
	A105	5,524,230		Sakaue et al.	06/04/1998		
	A106	5,523,980		Sakui et al.	06/04/1996		
	A107	5.519,847		Fandrich et al.	05/21/1996		
	A108	5,515,333		Fujita et al	05/07/1998		
	A109	5,513,138		Manabe et al	04/30/1996		
	A110	5,490,117		Qda of al	02/06/1996		
	A111	5,479.638		Assar et al.	12/26/1995		
	A112	5,473,765		Gibbons et al.	12/05/1995		
	A113	5,465,338		Clay	11/07/1995		
	A114	5,465,235		Miyamoto	11/07/1995		
	X115	5,431,330		Wieres	07/11/1995		
	A116	5,430,682		Ishikawa et al	07/04/1995		
	A117	5,422,856		Sesaki et al	06/05/1995		
 	A118 A119	5,418,752 5,406.527		Harari et al.	05/23/1995		
	A120	5,404,485	ļ	Honma Ben	04/11/1995 04/04/1995		
	A121	5,388.083		Assoret al	02/07/1995		
	A122	5,384,743	 	Rouy	01/24/1995		
	A123	5,382,839	 	Shinohara	0171771995		
	A124	5,381,539	 	Yanai et al	01/10/1995		
I	A125	5,371.702	+	Nakai et al	12/08/1994		
 	A126	5,365,127	 	Manloy	11/15/1994		
 	A126B	5,359,569	 	Fujita et al.	10/25/1994		
	A127	5,341,341	+	Fukazo	08/23/1994		
	A128	5,341,339	 	Wells	08/23/1994		
	A129	5,341,330	1	Wells of al	08/23/1994		
	A130	5,329,491	 	Brown et al.	07/12/1994		

FOREIGN	[Documo	Foreign Patent			Opto of Publication of	Pages Columns Lines		
Examinar Initials*	Cite No '	Count Number ⁴ V Code		Kind Code ^s (# known)	Name of Patentae or Applicant of Cited Document	Gited Decument MM-UD-YYYY	Where Relevant Progragos or Relevant Figures Appoin	₹*	
่ฮฟ	B1		0 663 636	A1	Sun Microsystems, Inc.	07/19/1995			
1	822		0619541	A2	Hitachi, Lld., Hitachi Keiyo Engineering Co., Lld, Hitachi ULSI Engineering Corp	10/12/1994			
	B 3	1	0 617 363	A2	Sundisk Corporation	09/28/1994			
-	B 4		0 613 151	A2	Kabushiki Kaisha Toshiba	08/31/1994			
	85		0 522 780	A2	International Business Machines Corporation	01/13/1993			
	B6		0 522 780	Bi	International Business Machines Corporation	01/13/1993			
$-\Lambda$	B7		0 392 895	A2	Sundisk Corporation	10/17/1990 ^"			

Substitute for form 1449A/PTO							Complete if Known				
Subs	MA	104 1011		,,,,,,		•	Application Num	ber	09/500,755		
IF	NFC	ORN	IATI	ON DISCL	OSURE		Filing Date	-1,	02/08/2000		
S	STA	TEN	ΛEΝ	T BY APP	LICANT	,	First Named Inventor		Mehdi Asnaashari		
							Group Art Unit		2851		
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	. 1	<u> </u>	5	1.4	6		Attorney Docket N	tumber.	38070	9-71US	
She		00 I	-	of 2 304 428		Aiteur	bishi Denki Kabushiki	03/19/1997			1
M	W	B8			. l +	Caish	a	02/07/199		<u> </u>	
1		B9		2 291 990			ory Corporation	07/01/199			
	·	B10		2 251 323			Corporation hi Co , Ltd , Hitachi	06/06/199			
		1811		9-147581			Engineering Corp				<u> </u>
		B12		59-92483				05/28/198		ļ	
		B13		8-69696	1 1 .		iba Corp.	03/12/199			
		B14		8-18018			iba Corp	04/07/19			
		B15	_	7-93499		Mitac VLSI Hitac Semi	hi Co , Ltd . Hitachi Engineering Com., hi Tobu iconductor Co , Ltd.	04/07/19:	5. ,1		
-	 	B16		7-8487	- '	J-01111	CONTRACTOR AND LAND.	03/31/19	95		
	1 1	B17		7-334996	-			12/22/19:			
		B18		7-311708		Fuji I K.K., Ltd.	Film Micro Device Fuji Photo Film Co ,	11/28/19			
\vdash	1	B19		7-235193				09/05/19			
	\Box	B20		7-141258				06/02/19			
	T	B21		7-114499				05/02/19			
***		B22		6-4399				01/14/19			
		₿23		6-36578	1 1	•	y Kabushiki Kaisha	02/10/19			
		B24		6-266596	h l		chi Ctd	09/22/19			
		825		6-149395	1 1	NEC	su Ltd., Fujitsu VUSI	05/13/19			
1		B26		6-132747	1	Ltd.					
	1	B 27		6-131889			niba Corporation	05/13/19			
		828		6-124231		-	niba Corporation	05/06/19			
		B29		6-124175			р Согр	05/06/19			
		B30		5-282883			niba Corp subjehi Electric Corp	05/25/19			
<u> </u>		B31	Ļ	5-128877 4-57295			Corporation	02/25/19			
<u> </u>	↓	B32	<u> </u>	4-278297	 		hiba Corp.	10/02/19			
1	_	B34	<u> </u>	4-258284			Photo Film Co., Ltd	09/24/19			·
	1-	B35	}	4-254994			hiba Corp	09/10/19			<u> </u>
<u> </u>	1	B35	+-	RM-37697			•	02/21/19	96		1
	\vdash	B37		3-228377		Tos	hiba Corp	10/09/19	581	1	
—	╁	B38	+	1-138694	-		on Denki Kabushiki	05/3119	89		
\vdash	 	B39	┼	WO 94/20906	_ - -}	Kale M-S	sha Systems Ltd.	09/15/19	994	 	
		B40	+-	SU 1686449	- A2	NG	B. Parkhomenko, S.B. Jelkov, V.Yu Lozbenev S.S. Karpenko	10/23/19			1.
	\vdash	841	-	SU 1573458	A2	NG	S.S. Karpenko J. Parkhomenko, V. Yu benev, V.G. Chemysov S.B. Kozelkov	08/23/1	990		
		842		SU 1541619	Al	K.C Sid G.V	S.Semenov, N.M. orov, A.I. Zhdanov. / Kukhar and V.I apenko	02/07/1	990		
	1	B43	-	SU 1515164	A1	T.Ý. Pat	Dementiev and A.S	10/15/1			
	1	B44	T"	SU 1408439	A1	V.V	Merkul I Yu Manukin	07/07/1	986		· [
	V	B45	1	SU 1388877	A1	N.C	Parkhomonko, V. Yu. benev and A P provskij	04/15/1	988		
	_ w										

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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Indigits' /		Include remu of the author (in CAPITAL LETTERS) title of the onicto (when appropriate), title of the dum (book, magazine, Journal serial sympothem colorlog, ent.) date page(s) volume-issue number(s), publisher only analysis country where published	12
	C1	MENDEL ROSENBLUM and JOHN K. OUSTERHOUT. The Design and Implementation of a Log-Structural File System. article. 1991, 15 pgs.	
WIC	C2	BRIAN DIPERT and MARKIES LEVY Designing with Flash Memory, basis, April 1994, 445 pgs. Annahonks, San Diego, USA	

С

Substitute for form 1449A/PTO							Complete if Known					
Subs	uiul	5 101 1011	11 1 443/ 07 (O				Application Number	09/500,755				
11	۱F	ORM	ATION I	DIS	CLOS	URE	Filing Date	02/08/2000				
STATEMENT BY APPLICANT							First Named Inventor	Mehdi Asnaashari				
							Group Art Unit	2851				
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She	eet	1	6	of		6	Attorney Docket Number	38979-71US				
J	1	C3	- 	SCIL	ICLE FORUM, II	VC . I-tash Memo	у Зутровит 95 кутровит 1985, 13 рдк. (łango, Benkyo-ku Tokyo				
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		C4	ROSS S F	ENLAY5	IN and DAVID	R CHFRITON, A	n Extended File Service Exploiting Write-Onc	e Storage, article, 1987 10 pgs ACM				
		C5	JASON GAIT, The	Optical	File Cabinet. A	Random Access	File System for Write Once Optical Disks on	icle, Julie 1988, 12 pgs. Bauvarton Gragon				
H	_	C6		MENR	Y G BAKER M	lensiy Managen	ent, book, 1995, 19 pgs Springer-Verlag Bar	in Heidelberg Germany				
		C7	SAPE J MULLE	NDER at	M ANDREW S	TANENBAUM. A	Distributed File Service Based on Optimistic	Concurrency Control article 1985 12 pgs	_			
		C8	НІКОВНІ НАКАЛ	NUŘA. JI			ACM MAMIYA and YUSHIHISA IWATA A Noval Se					
$\vdash\vdash$		C9	HIKÛSHI NAKA	MURA			palum, 1995, VLSI Circuita Digeal of Technica IMAMIYA, YOSHIHISA IWATA, YOSHIHISA S					
\vdash		C10	Sensing 3	Scheme 1	with Orr-Chip Pr	age Copy for Flex	itule Voltinge NAND Flash Mamorina, article,	lune 1996, 9 pgs., Vol. 579 C, No.6				
Ш			MONO	S Menso	ry Cell los Sens	conductor Drak A	oplication, article, 1991, 5 pgs., Journal Of Sc	olid =State Circuits, Vol.,26, No. 4				
		C11					Architecture and Parallel Processing book. 1					
		C12					Hill, Itie , US	hide. 1990, 7 pgs. Vol. 15 Nn. 12 MnGrew-				
		C13					emories sook their role in system design, arti-					
		C14	S MEHROURA JH YUAN RA CEMEA WY CHIEN DIC GUTEMAN GISAMACHISA RID NOMAN MIMOFIDI WILEE Y FONG A MIHNEA. E HANN RIW CREGOR EIP EBERHARDT JIR RADOSEVICH KIR STILLES, RIA KONLER CIW LITLING and TIJ MULIROONEY Social SMb F EEPROM for Solid State Disk Applications, symposium, 1992, 2 pgs Mountain View, CA									
		C15	STEVEN H LEIDSON Nonvolatile in-circuit-reprogrammable memories artiste January 3 1991 12 pgs FDN Circle No 12									
Ш		C16	WAITER LAHTI and REAN McCARRON, State of the Art Magnetic VS Optical Store Date in a Flesh article 1990 7 pgs. Vol. 15, No. 12 McCraw- Hill, Inc., US									
\sqcup		C17		KAI HWANG and FAYE A BRIGGS Computer Architecture and Parellel Processing, book, 1984, McGraw-Hill Inc. 2 pgs. US.								
\sqcup		C18					programmable memories, article, January 3,					
		ļ '				October 1993	MARSH, Operationy System Implications of S , Workshop on Workstation Opering Systems	• • • • • • • • • • • • • • • • • • • •				
		C20					Volatilo. Main Montory Storage System, 12 p					
		C21	DAVE BURSKY systems (include	Innovat Selution at	ive flash memor Lanticles on the	CHIGHTS OF HEIST C	l densities: evailable with a choice of features and on the differences between NAND and NC tranic Design, v.42, n.10. The Gale Group	Stath memories are tinding homes in many OH tlash memonos), article May 15, 1994, 9				
		C22				ncements up ente	 (Inters 28F4008V-120 and 28F0048V-120. (devase)(Froduct Amouncement) erticle Management (1998) (2056) The Gale Group 					
	\vdash	C23	SAM WERER 1	lach m	odulos portabili	ty rousability, an	nall size valued for a host of APPs Consumer.	formate blocking to "floon" article 7/22/06, 0	-			
<u> </u>	t^-	C24				TOSHIBA MOS	onic Engineering Times, n 911, CMP Media MEMORY (NON-VOLATILE) 1995 Data Bu	ok .	•			
	Τ	C25	STAN BAKER BUT INTEGRATION CALLS FOR HARDWARE. SOFTWARE CHANCES Hash doughers tace the down of a new memory age artists, 9/12/03, 5 pgs., Electronic Engineering Times, 1990, N.619, 41, CMP Media									
	1	C26	TOSHIBA	TOSHIE	A MOS DIGITA	AL INTEGRATED	CIRCUIT SILICON GATE CMOS (TC58NS5	120C) 3/21/2001 -13 pgs . Deta Book				
	1	C27	TOSHIBA CORPORATION SMIL (Smortmodia Interface Library) Hamtware Edition Version 1 00, July 1 2000, 35 pgs. Date Book									
	t	C28	TOS	HIRA, TO	SHIRA MOS O	IGITAL INTEGRA	ATED CIRCUIT SII ICON GATE (TCS0512FT), 3/05/700 (43 pgs. Data Book "				
	+	C29	TOSHIDA TOSHIDAMOS DÍGITAL INTEGRATED CIRCÚIT SILICON GATE (TC56DVM92A1ET00). 1/10/2003. 44 pgs. Data Book									
l		C30	TOSHIBA TOSHIBA MOS DIGITAL INTEGRATED CIRCUIT SILICON GATE (TCS8DVG02A1FT00), 1/10/2003, 44 pgx, Data Book									
	1	C31	TOSHIBA TOSHIBA MOS DIGITAL INTEGRATED CIRCUIT SILICON GATE (THS8100FT) 3/05/2001 43 pqs Dala Book									
	T	C32	SSNONVOLATILI	E MEMO	RY TECHNOLO	XCY REVIEW A	Time of Change Proceedings 1993 Conferen	ce. June 22-24, 1993. Lml/down Heighta, MD				
	T	C33	TOSHE	A CORP	ORATION. 8M	IL (8marimedia ir	nerfece Library) Softwere Edition Version 1 D	July 1, 2000, 136 pgs , Data Book				
	\coprod	C34			то	SHIBA MÓS MEI	MÔRY (NON-VOLATILE). 1995 279 pgp. Dæ	LA BOOK				
	V	C35	DAN AUC	DAN AUGUAIR Optimal Solist Steto Disk Architecture For Porteble Compileers, symposium, July 9, 1991, 7 pgs. Sunflisk Corporation								

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Examiner Signature	Aron .	Whip	Date Considered	41	29/	018	

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